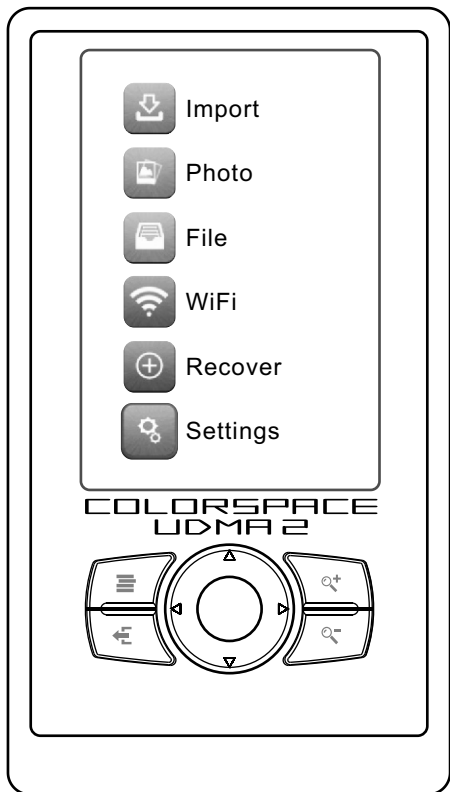


COLORSPACE UDMA2

User Manual



Vertrieb Deutschland



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FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

RF warning statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

Sanho Manufacturer's Limited Warranty

Sanho warrants to the end user, that this product, excluding content and or software supplied with or on the product, will be free from material defects in manufacture, will conform to Sanho's published product specifications and be fit for normal use during the Warranty Period specified below commencing on the date of purchase provided that the product is legally placed on the market.

To make a warranty claim please contact Sanho at the telephone number below or support@hypershop.com within the Warranty Period and provide proof of purchase (showing date and place of purchase and name of the reseller) and product name, type and number. You may return the product after first obtaining a Return Material Authorization number and following any other guidelines listed. For further information see www.hypershop.com. Sanho may at its option repair this product or provide you with an equivalent product; and if unable to repair or replace the product, will refund the purchase price. Sanho will not be liable for indirect or consequential damage (including loss of data), or for damage caused by improper use (including use in an incompatible device and use not in accordance with the instructions), or by improper installation, unprofessional repair, modification or accident. This constitutes Sanho's entire liability which will never exceed the price you paid for it, plus the necessary costs you made for the warranty claim. Sanho products must not be used in applications where failure could threaten injury or life, such as life support systems. National, state and local laws may grant you other rights that are not affected by this warranty.

Warranty Period: 1 Year

Sanho Corporation
47456 Fremont Blvd.
Fremont, CA 94538, U.S.A.
Tel: +1-408-737-7878

Additional terms and conditions can be found at
www.hypershop.com

Usage of this product constitute acceptance of these terms and conditions.

Safety Operating Instructions

Do not use the product in a humid environment and do not operate the product with wet hands. If any liquid entered the product, please remove the battery and power off the product immediately and send the products back to the distributor for repair.

Never try to use a product that was eroded by liquid, as it may result in battery short circuit. Some batteries may cause a fire when short-circuited.

Do not place this product near the strong magnetic objects; otherwise it may cause data loss.

Do not insert non-compatible memory card or foreign objects into the slots or the DC charging port forcibly.

If you detected funny smell, severe heat or smoke with the main device or the charger while charging the battery in the device, please cut off the power supply and remove the battery immediately. Be careful not to be scalded when removing the battery.

When using a non-original charging adapter, please make sure its output standard complies with the power standard of this product.

The battery may be slightly heated while charging; please place this product at a cooling place for charging.

Please power off the product before opening the back cover.

Do not plug in/out the hard drive while power is on.

Catalogue I

What's In The Box	1
Basic Operations	
1. Charging Battery	4
2. Power On	5
3. Power Off	6
4. Main Menu and Dialog Box	7
5. Popup Menu	8
Import Photos	
1. Importing Memory Card	9
2. Importing USB Storage Device	10
3. Starting Importing	11
4. Importing Partial Contents	12
5. Saving to Another Location	13
6. Improve Importing Speed	14
7. During Importing	15
8. After Importing	16
9. Finding the Imported Folder	17
Browse Photos	
1. Browse Folder and Thumbnail	18
2. Changing Thumbnails Size	21
3. Changing Display Mode	22
4. Set Sorting Mode	23
5. Viewing Photos Full-Screen	24
6. Rotating a Photo	25
7. Displaying Histogram and EXIF	26
8. Zooming and Roaming a Photo	27
9. Decoding the RAW Data	28
6. Adjust the Dynamic Range of RAW Image	29

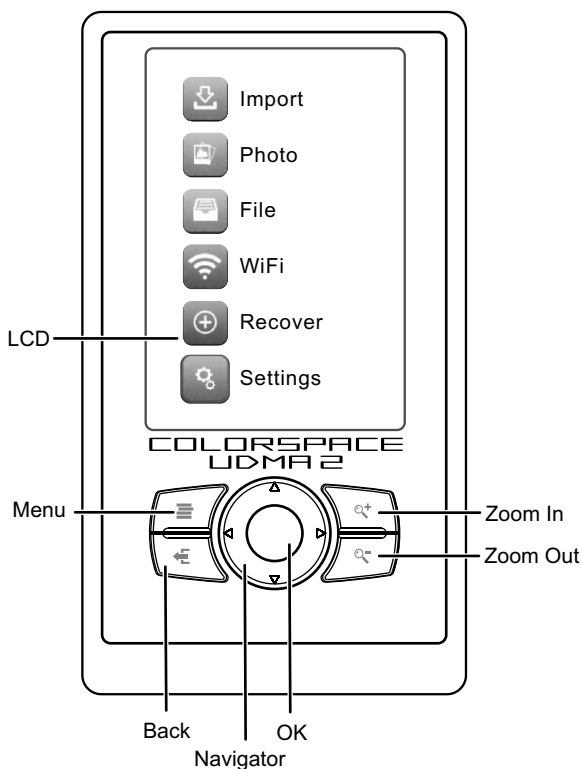
Catalogue II

File Manager	30
1. Basic Operation of File Manager	31
2. Creating New Folder	32
3. Selecting Multiple Files	33
4. Paste The Selected Files Into A Folder.....	34
5. Sync Folder to External USB Storage	35
Recover Photos	36
WiFi Wireless Sharing Photos	
1. Turn On The WiFi Adapter	39
2. Connecting iPad To UDMA2	42
3. Using iPad To Access UDMA2	43
4. Connecting UDMA2 To Wireless Router ...	44
5. Accessing UDMA2 In MacOS	47
6. Accessing UDMA2 In Windows	48
USB Connection to PC	49
Settings	
1. Check the Hard Drive S.M.A.R.T. Info.....	50
2. Upgrading the Firmware	51
3. Formating Hard Disk	53
4. Restore Factory Settings	54
Specifications	55

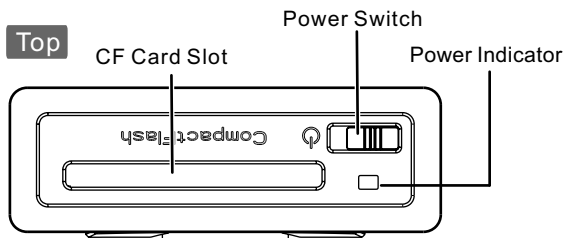
01 What's In The Box

Front

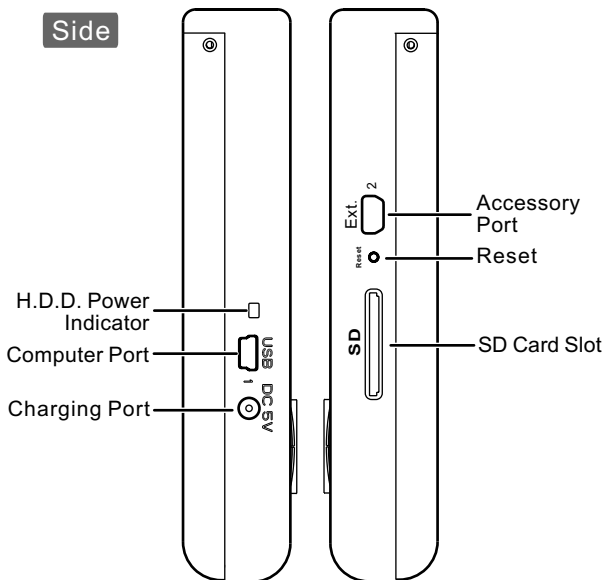
Main Unit



What's In The Box



Main Unit

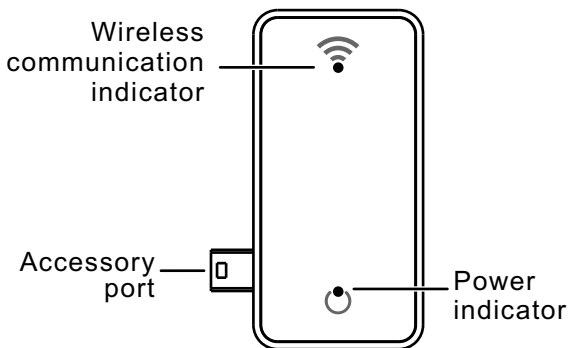


Left Side

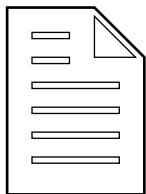
Right Side

What's In The Box

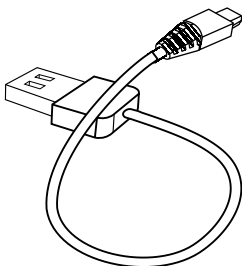
Accessory



WiFi Adapter



User Manual

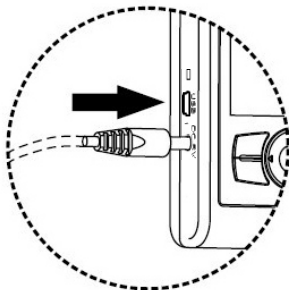


USB Cable

02 Basic Operations

Charging Battery

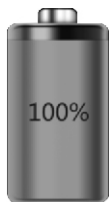
Power the device off and connect it to a wall socket with the provided AC power adapter.



Meaning of the battery icon displayed on the screen:



Charging in progress



Fully Charged

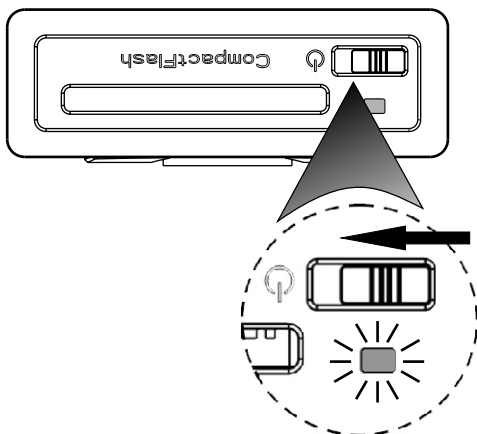
Tip

The screen backlight will automatically turn off during Charging progress, you can light up the backlight by press any key .

Basic Operations

Power On

Push the power switch to the direction as shown in the figure, and hold it until the top power indicator lights on.



Status of the power indicator:

Green light on	Power on
Off	Power off

Meaning of the battery icon at the upper-right corner of the screen:



Fully charged



Battery low, please charge the battery



Charging in progress

Basic Operations

Normal Power Off

Push the power switch to the same direction as power on; a power-off indicator will pop up and the system will start counting down. If you want to cancel the power-off operation, please press the “Back” button, otherwise, the device will be shut down in 5 seconds.



Force to Power Off

If the system does not respond to any button operation for a long time, you can try to power off the device forcefully. Push the power switch and hold its position for more than 6 seconds until the power indicator is off.

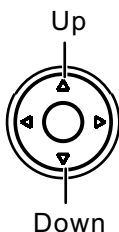
Tip

If the device is powered off forcefully when the indicator of storage device access is on, the data being accessed may be lost. Please restart the system and check the data of the storage device.

Basic Operations

Main Menu

1. Use the up and down arrow button to select an Application



2. Use the OK button to confirm the selected Application



Dialog Box



1. Use the right and left arrow button to select an button on the interface

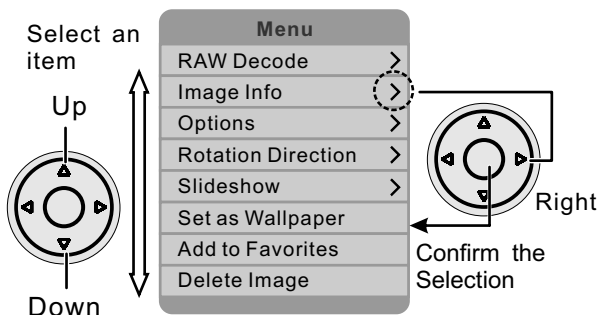
2. Use the OK button to confirm the selected button

Basic Operations

Popup Menu

You can press the “Menu” button to display the popup menu in many operations.

1. Use the up and down arrow button to select an item in the popup menu;
2. If there is a ">" symbol at the end of a menu item, it means this item has a sub-menu. Use the OK button or the right arrow button to enter the sub-menu;

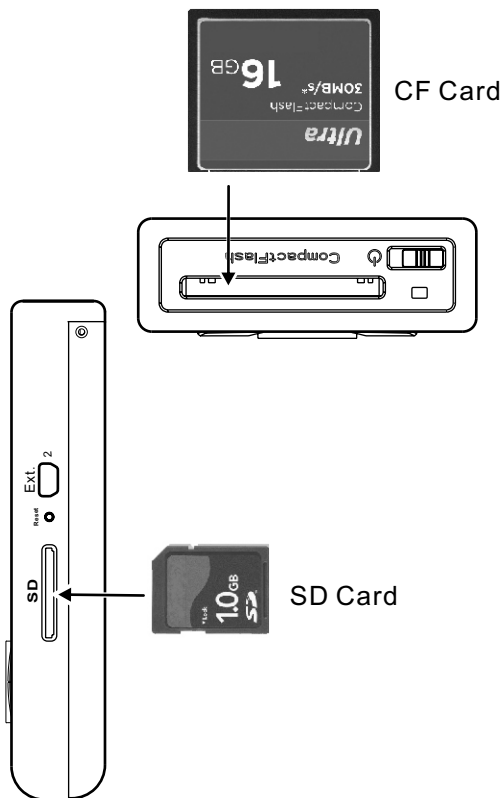


3. Use the OK button to confirm the selected menu item (the highlighted item). If it is the “Settings menu”, the corresponding item will be automatically saved; if it is the “Function Menu”, the corresponding function will start immediately.

04 Import Photos

Importing Memory Card

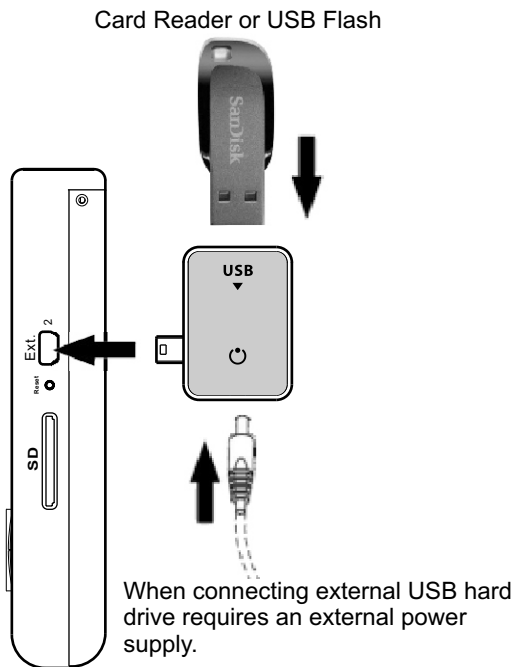
Please do not insert the CF card and SD card at the same time, otherwise the device unable to identify any memory card .



Import Photos

Importing USB Storage Device

Card Reader or USB Flash can be connected to UDMA2 through an optional OTG adapter.



Tip

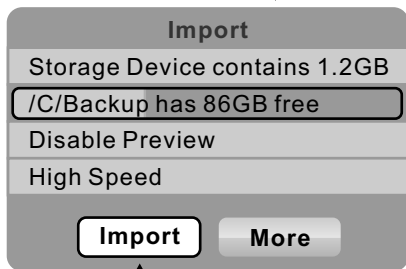
When connecting the OTG device, CF card slot and SD card slot must not be inserted memory card , otherwise does not recognize the OTG

Import Photos

Starting Importing

1. Select 'Import' in the desktop main menu, and then press the OK button.

2. The system will start scanning the inserted memory card and calculate the hard drive space;



3. If not need to change the import options, select 'Import' and then press the OK button to immediately start to import photos;

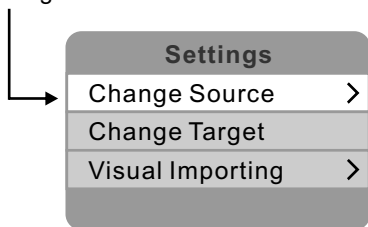
Tip It may take a few seconds to more than 10 seconds to calculate the hard drive space depending on the hard drive capacity. Please wait patiently.

4. If you want to change the importing mode, please select 'More' and press the OK button. You can then set the importing mode. (Continued on next page).

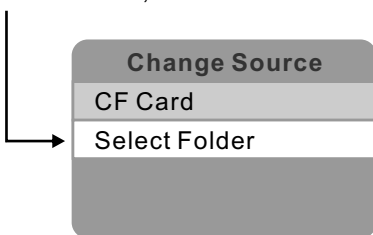
Import Photos

Importing Partial Contents

1. Select 'Change Source', and then press the OK button or the right arrow button to enter the submenu;



2. Select 'Select Folder', Press the OK button.



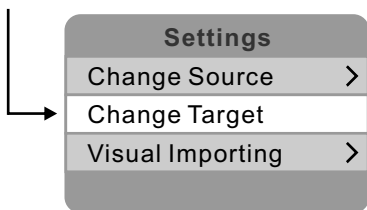
Differences of the importing modes :

Import from CF card	Import all files in the memory card to the built-in memory
Import from a folder	Select one folder from the memory card, and then import the files in this folder to the built-in memory

Import Photos

Saving to Another Location

1. Select 'Change Target', and then press the OK button or the right arrow button to enter the submenu;



2. Select a folder from the pop-up dialog box, and then press the OK button.



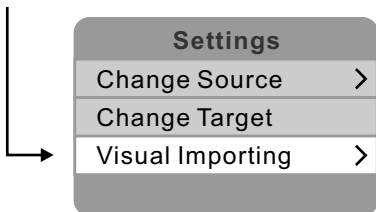
Tip

You can only choose the first level folder in the root directory as the storage location.

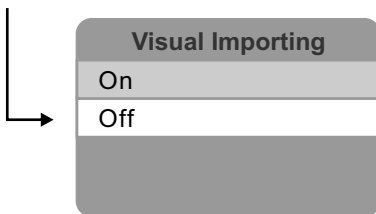
Import Photos

Improve Importing Speed

1. Select 'Visual Importing' and then press the OK button or the right arrow button to enter the submenu;



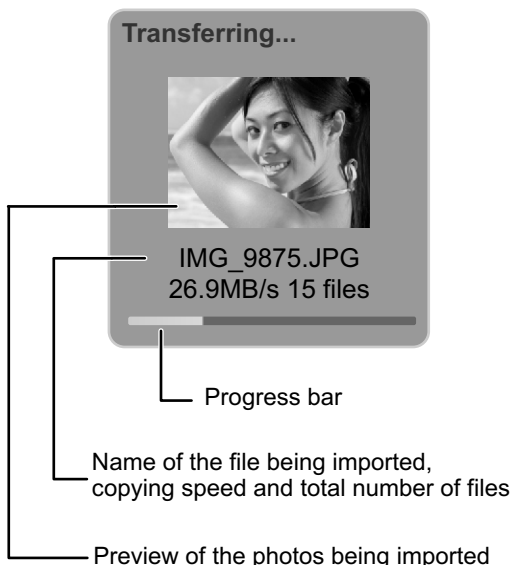
2. Select 'Off', and press the OK button.
It will not display the preview during importing process, therefore the importing speed will be improved by 10% .



Import Photos

During Importing

During importing process, the LCD screen will display the current progress of the import photos .



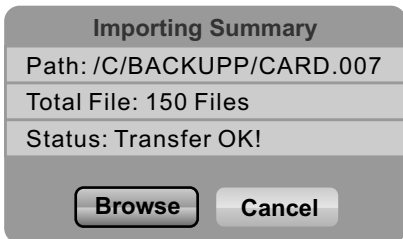
Tip

During the importing process, you can press the Back button to cancel the importing. As the system is in a state of high-speed operation, it may not respond to your command timely. Please hold the Back button until the confirmation window is popped up.

Import Photos

After Importing

1.The screen display after the completion of a normal importing;



2.The screen display after an error occurred during the importing process;



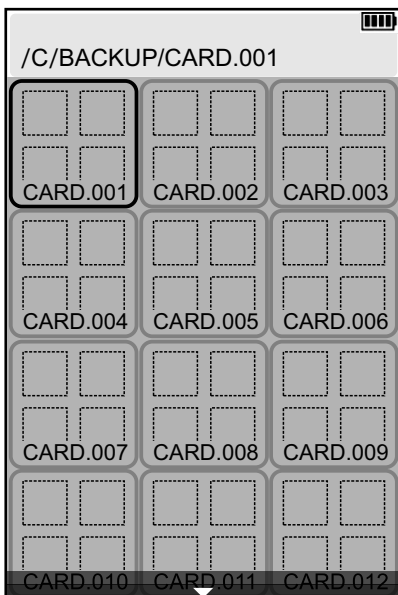
Tip

If there is an error message and you did not read the message before automatic power off, the importing error message will be displayed again at the next startup.

Import Photos

Find the Imported Folder

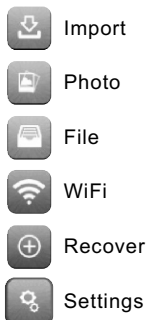
The naming convention of the imported folder is: `/BACKUP/CARD.###`, where `###` is the integer 001, 002 ... incrementing automatically; the folder with the largest number is the latest imported folder.



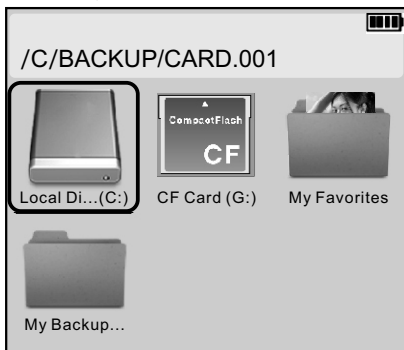
04 Browse Photos

Browse Folder and Thumbnail

1. Select "Photo" in the desktop main menu, and then press the OK button to open the photo browser;



2. Select a storage device, and then press the OK button;

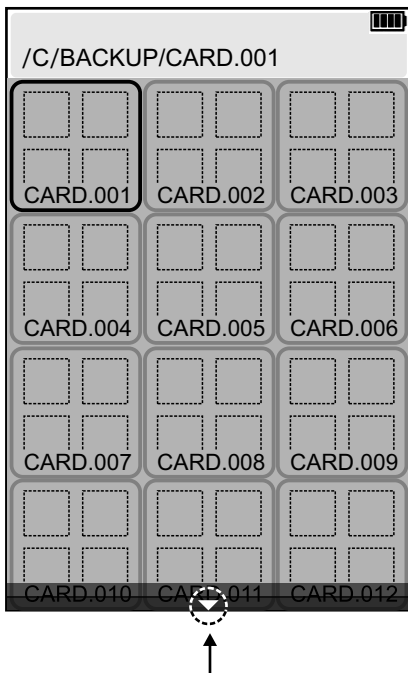


Tip

You can adjust the icon or thumbnail size by pressing the zoom in and zoom out button after enter the Photo Browser.

Browse Photos

3. Select a folder containing photos, and then press the OK button;



Tip

The white triangle at the edge of the screen indicates that there are more contents. You can press the corresponding arrow button according to the direction of the white triangle to view more contents.

Browse Photos

4. View photo thumbnails;



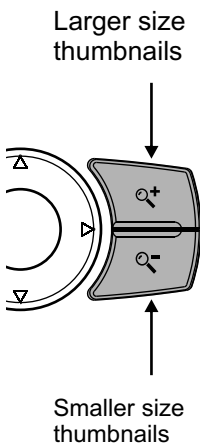
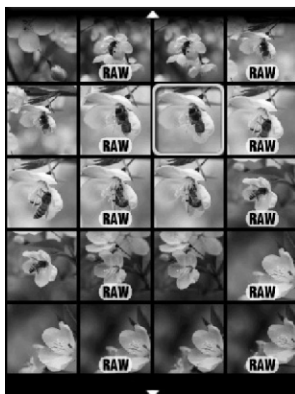
Tip

Some photos do not have a thumbnail. For these photos, the system can only display an icon with the file name. You still can press the OK button to try to decode these photos.

Browse Photos

Changing Thumbnails Size

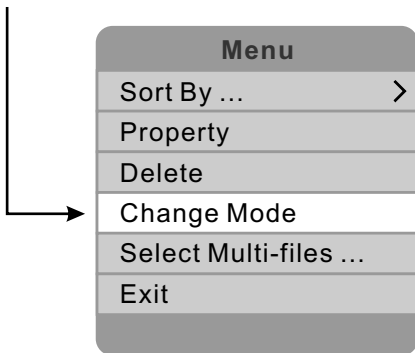
You can adjust the thumbnail size by pressing the zoom in and zoom out button.



Browse Photos

Changing Display Mode

In the photo browser , press the Menu key to enable the popup menu , select 'Change mode' , press OK , you can switch between two display modes ;



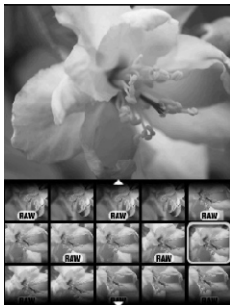
UDMA2 supports two different display modes,you can switch between two display modes ;

Display Mode 1



**Thumbnails
Only**

Display Mode 2

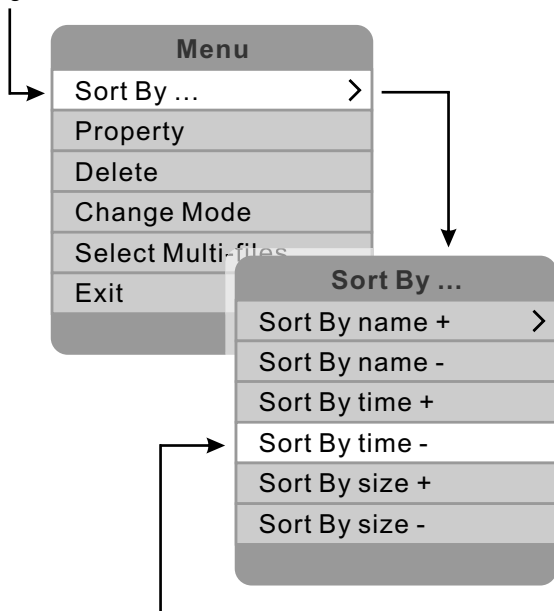


**Large picture
+
Thumbnails**

Browse Photos

Set Sorting Mode

1. Press the Menu button to display popup menu;
2. Select 'Sort', and then press the OK button or the right arrow button to enter the submenu;



3. Select a sorting mode and press the OK button.

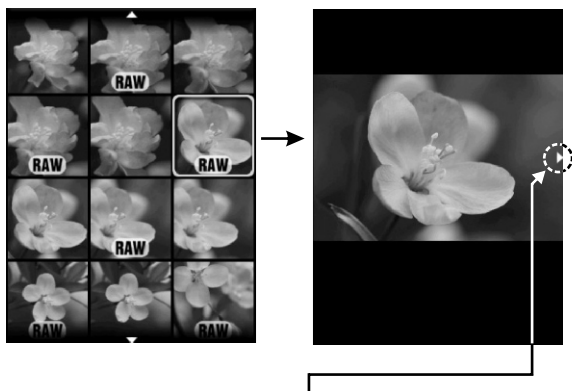
Tip

If you rearrange the photos in descending order according to the date of creation, the most recent photos will be displayed on the top.

Browse Photos

Viewing Photos Full-Screen

1. In the thumbnail browsing mode, you will be able to browse the photo in full-screen mode after selecting one photo and pressing the OK button.

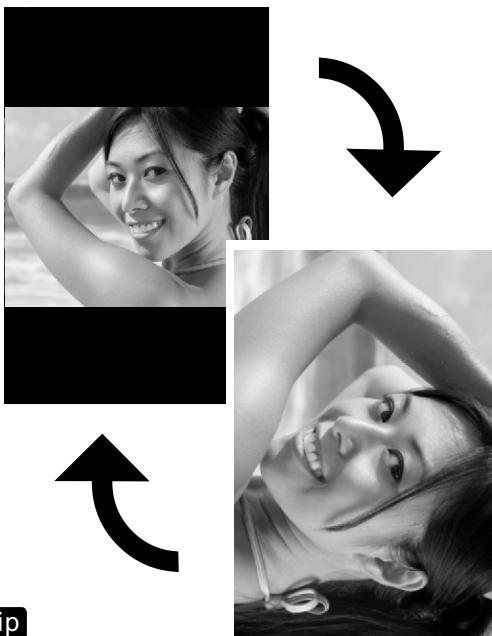


2. when the white arrow appears at the right side of screen, it means the next photo is ready for browsing, you can press the right arrow button to open the next image immediately.

Browse Photos

Rotating a Photo

Press the OK button to rotate the photo by 90 degrees.



Tip

The photo rotation result will not be written into the storage device.

You can change the direction of photo rotation according to your habit.

1. Press the Menu button to enable the popup menu;
2. Select the "Rotation Direction" submenu;
3. Select "Clockwise" or "Counterclockwise".

Browse Photos

Displaying Histogram and EXIF

1. Press the Menu button to enable the popup menu;
2. Select "Picture Information", and then press the OK button or the right arrow button to enter the submenu;
3. Select "Histogram" or "EXIF Information", and then press the OK button or the right arrow button to enter the submenu;
4. Select "Enter" or "Exit", and then press the OK button to save the settings.



← EXIF
Information

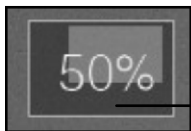
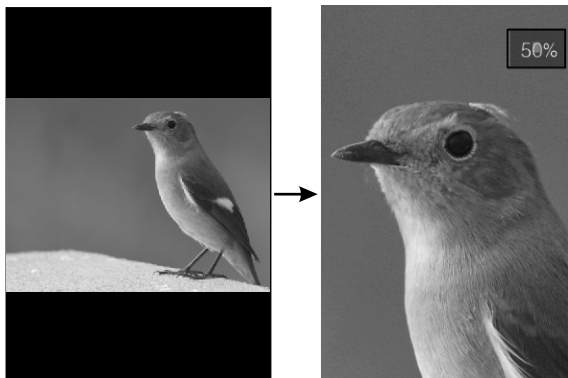
← R、G、B and
Brightness
Histogram

Tip You can display or hide the histogram and EXIF information by pressing the up and down arrow button.

Browse Photos

Zooming and Roaming a Photo

1. In Full-screen mode, you can progressively zoom in/out a photo by pressing the zoom in or zoom out button. If the resolution of the photo is large enough, the system can provide 6 zooming levels: 25%, 33%, 50%, 66%, 100%, 150%.



Red color means the system is decoding now.

Green color means the full range of the photo decoding is completed.

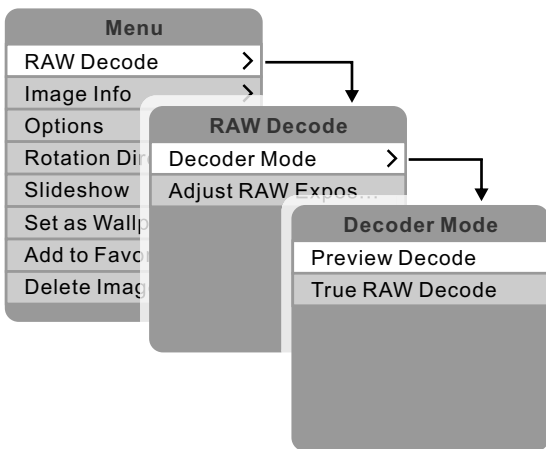
2. When the photo is displayed in an enlarged mode, you can use the arrow buttons to move the displayed area.

Browse Photos

Decoding the RAW Data

Only if the RAW picture contains the RAW data from the camera sensor, UDMA2 will have the ability to decode the RAW data.

1. While browsing a single RAW picture, press the Menu button to enable the popup menu;
2. Select 'Decode RAW Data', and then press the OK button or the right arrow button to enter the submenu;
3. Select 'Decoding Mode', and then press the OK button or the right arrow button to enter the submenu;
4. Select 'Decode the True RAW Data', and then press the OK button to start the actual decoding.



Tip

The decoding result of the true RAW data is a picture without the post-processing effects such as denoising, so you can view the very original picture.

Browse Photos

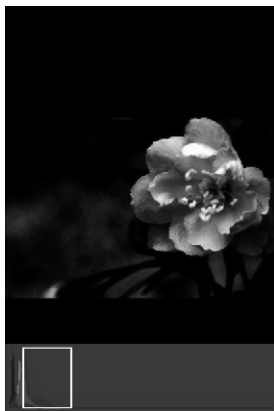
Adjust the Dynamic Range and Brightness of RAW Image

As the colors of the RAW data use 10bit/12bit/14bit, so it has a large dynamic range for adjustment.

1. After the completion of the RAW data decoding, press the Menu button to enable the function menu;
2. Select "Decode RAW Data", and then press the OK button or the right arrow button to enter the submenu;
3. Select "RAW Brightness Control", and then press the OK button;
4. Press the left (<) and right (>) arrow button to adjust the brightness; press the up (Λ) and down (V) arrow button to adjust the dynamic range; press the OK button to restore the original value; and press the Back button to exit the brightness control.



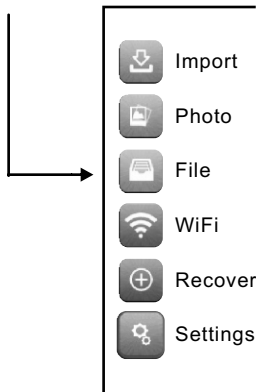
Before adjustment



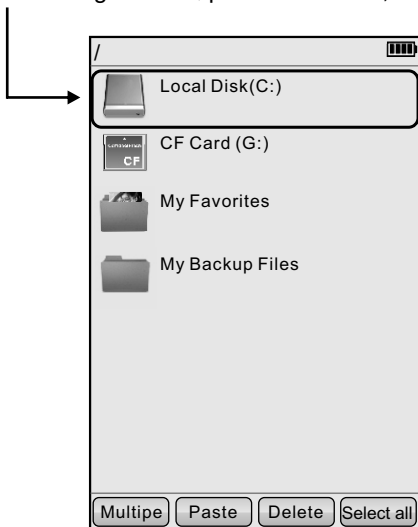
After adjustment

04 File Manager

1. Select 'File' in the desktop main menu, and press the OK button.



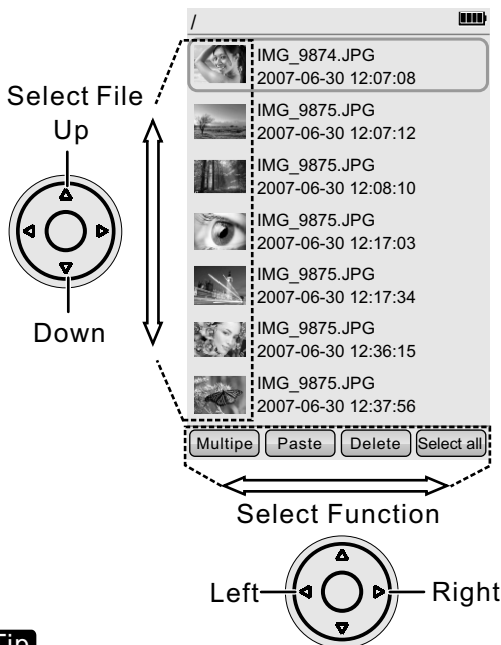
2. Select a storage device, press OK button;



File Manager

Basic Operation of File Manager

- 1, Use the up and down arrow button to select a file or folder;
- 2, Use the left and right arrow button to select an function;



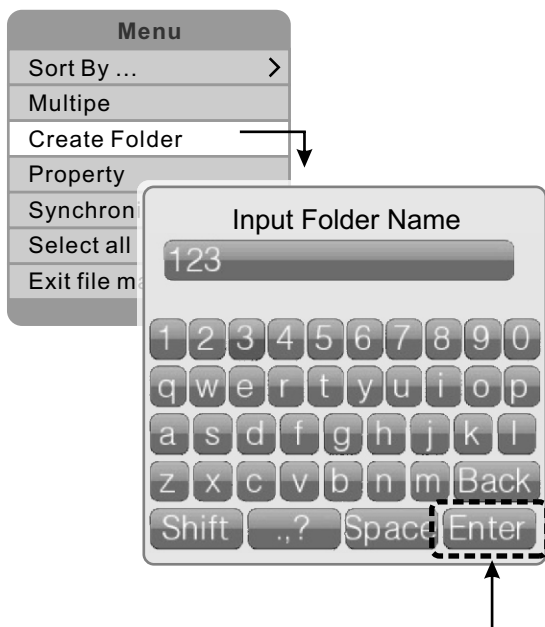
Tip

Use left and right arrow button to enter function selection, if you have not select any function, you can press the back button to return to the file selection.

File Manager

Creating New Folder

1. Press the Menu button to enable the popup menu, Select "Creat Folder" and press the OK button.
2. Input new folder name, use the arrow buttons to select the characters or the required operations on the virtual keyboard, and then press the OK button

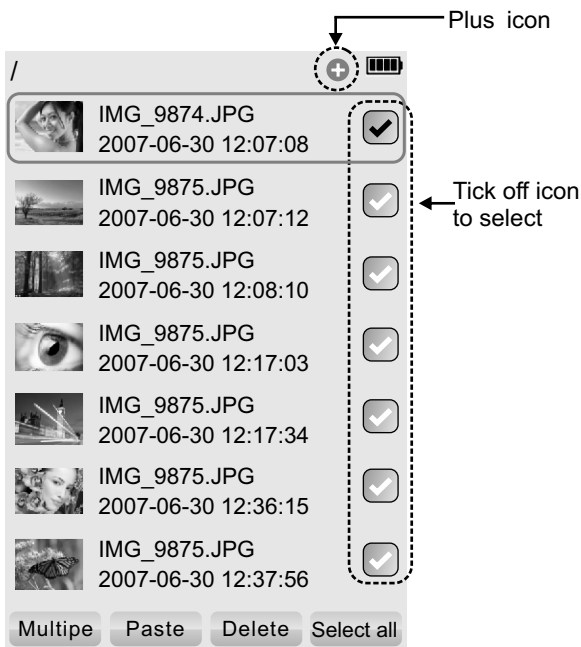


3. After entering the full new folder name, select <Enter> and press the OK button;

File Manager

Selecting Multiple Files

Use the arrow buttons to select files, then press OK button can enter the Multiple mode automatically. At this moment, the right side of the screen appears "tick" icon(s). As long as you choose any file, the top of the screen will appear "plus" icon.



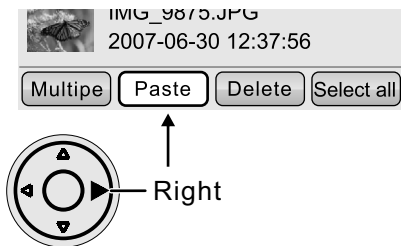
Tip

The appearance of the 'Plus' icon means there are files have been copied to the clipboard.

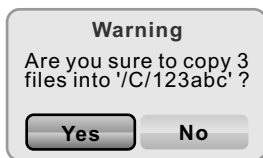
File Manager

Paste the Selected Files Into A Folder

1. After file selection is finished, press the exit button to exit from the current folder;
2. Choose another folder, and then press the right arrow key to select the 'Paste' function, press the OK button;



3. In next dialog box, select "Yes", press the OK button to start copying;



4. After all files were transferred, a message window will be displayed.

File Manager

Sync Folder to External USB Stroage

- 1, Connect external USB storage device to UDMA2 via an optional OTG adapter.
- 2, Select a folder and press Menu button. In popup menu, select 'Synchronizing to' function.
- 3, UDMA2 connects to external USB storage device and open folder selector window. Please choice one folder as sync target.
- 4, After you confirm it again, UDMA2 starts to synchronize local folder to external folder.

Tip

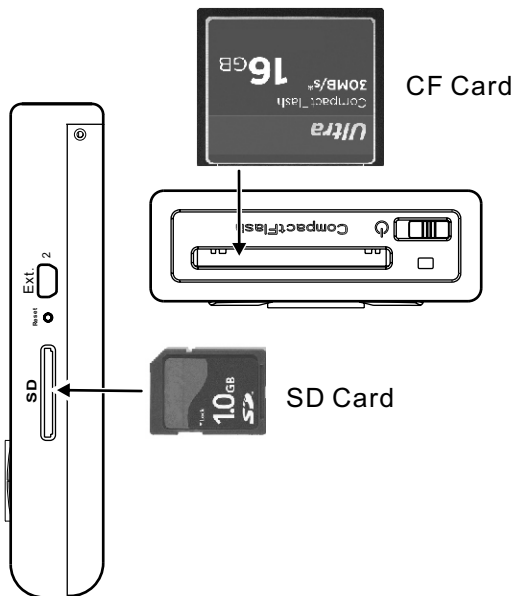
OTG Adapter is an optional accessory. It does not include in standard package.

If a local file existed in external folder, this file will be skipped.

06 Recover Photos

The Recover function can recover photos that are accidentally deleted from a memory card.

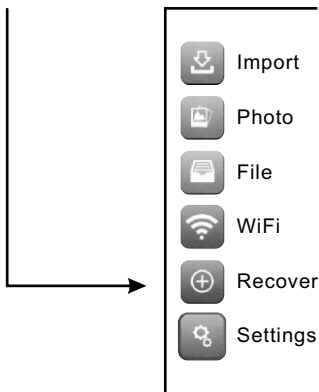
1. Insert the memory card that you want to restore into the corresponding slot;



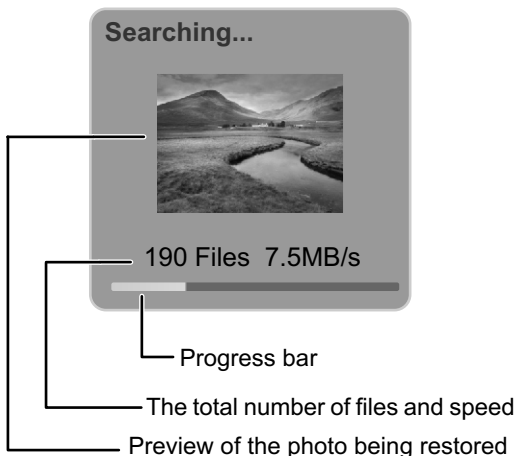
Tip Once you found that the photos on a memory card were accidentally deleted, please immediately stop using this memory card and use the CF card and SD card of this device to perform restoration. Otherwise it will not be able to restore the photos.

Recover Photos

2. Select 'Restore' in the desktop main menu;



3. During the restoration process, you can interrupt the operation by pressing the Back button.



Recover Photos

4. The restored photos are saved in the '/C/RECOVER' folder. Every restoring operation will create a new folder named "####" and the restored photos will be saved in this folder (where "####" is an integer, incrementing automatically).

You can recover deleted photos in the following formats::

Camera brands	Photo Format
CANON	CR2/TIF/CRW
NIKON	NEF
PENTAX	DNG/PEF
SAMSUNG	PEF
RICOH	DNG
SONY	SR2/ARW
OLYMPUS	CRF
PANASONIC	RAW
MAMIYA	MEF

Tip

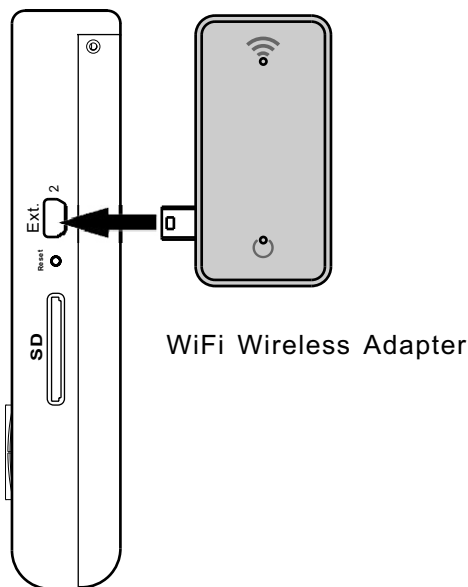
Please visit www.hyperdrive.com for the details of the latest list of supported formats.

07 WiFi Wireless Sharing Photos

Turn On The WiFi Adapter

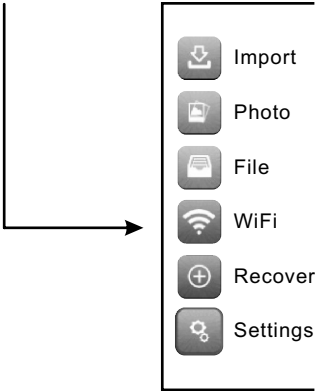
The UDMA2 has WiFi wireless sharing feature . By a wireless adapter , you can make the Tablet PC, the PC and smart phone wirelessly share photos in UDMA2.

1.Connect the WiFi adapter to the accessory port ofUDMA2.

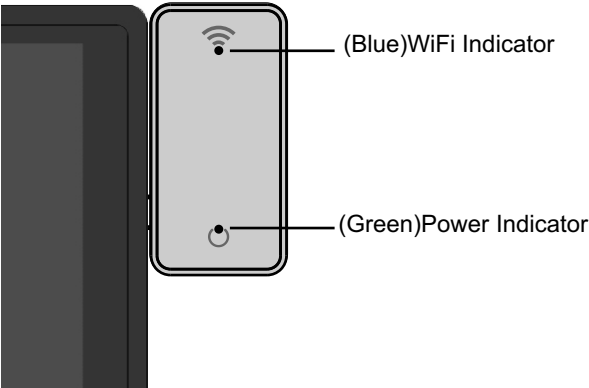


WiFi Wireless Sharing Photos

2.Select 'WiFi' in the desktop menu,press the OK button;

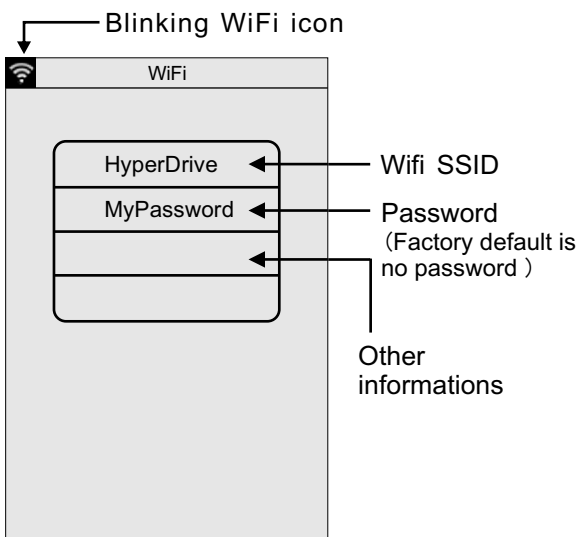


3.After the wireless networking is started, the green power light and the blue wireless communication light on the wireless adapter will be lit.



WiFi Wireless Sharing Photos

4. After the WiFi feature started, the screen will display the name of the wireless network, wireless network login password (if you set a password), and wireless network IP address (Internet mode).



Display of WiFi function

Tip

In order to save the power, after the wifi function started, the screen will display the wireless information for about 15 seconds, then turn off the backlight. Once you press any button, the LCD backlight will light up for another 15 seconds.

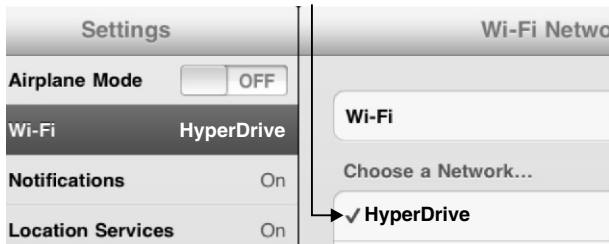
WiFi Wireless Sharing Photos

Connecting iPad to UDMA2

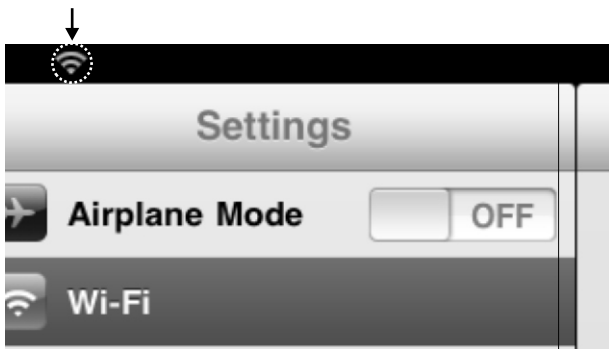
1.Go to 'Settings' in your WiFi device (e.g. iPad)



2.Select 'HyperDrive' from the list of WiFi networks;



3.After about 10 seconds the connection is successfully, then the wireless icon will be displayed in the status bar on the iPad.



Tip If you set up a wireless network password, you need to input the correct password at the first connection to UDMA2.

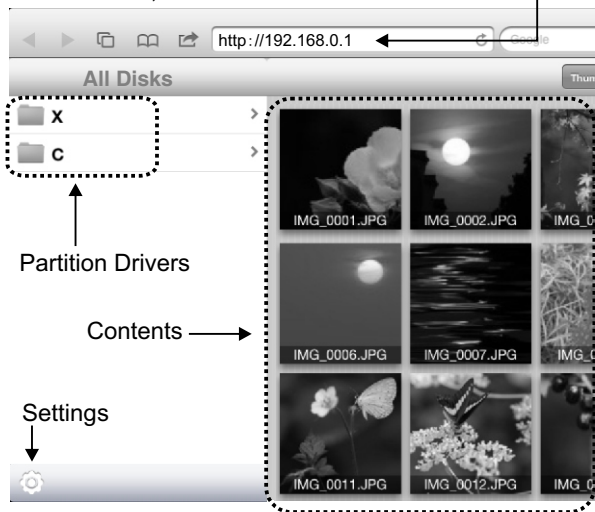
WiFi Wireless Sharing Photos

Using iPad To Access UDMA2

1. Select the 'Safari' of WiFi device (e.g. iPad)



2. Enter the IP address of UDMA2 in the URL address bar of Safari;



3. The contents of UDMA2 will be displayed in the Safari Browser. Use your finger to click on the folder icon or photo icon can open a folder or a photo.

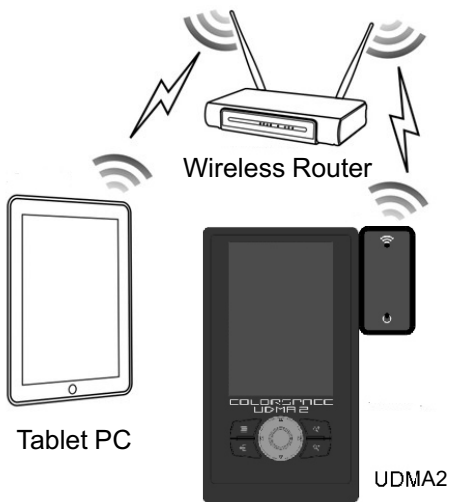
Tip

If you use the iPad to access UDMA2, please use the Safari browser as possible. Using other browsers may not be able to display the full user interface.

WiFi Wireless Sharing Photos

Connecting UDMA2 to Wireless Router


The UDMA2 can connect to a specified wireless router, Tablet PC via the wireless router can access both the Internet and UDMA2. This working mode called the 'Infra' mode. In this mode, the PC can also simply share photos in the UDMA2.



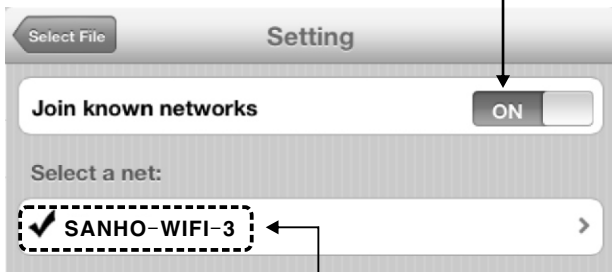
Tip

The default network mode of UDMA2 is 'Ad-hoc' mode, in order to switch to the 'Infra' mode, please turn on your wireless router first, until the wireless router is working properly, then power on the UDMA2. If the UDMA2 is powered on prior to the wireless router, the UDMA2 will not find the wireless router!

WiFi Wireless Sharing Photos

1, Using iPad to access UDMA2. Click on  icon to enter the setting function;

2, Click 'Join known networks' on the setup interface to make it to be 'On' state.



3, Select a wireless router you want to connect .

4, Input the password of the wireless network on the following page, then click 'Done' to save the password.



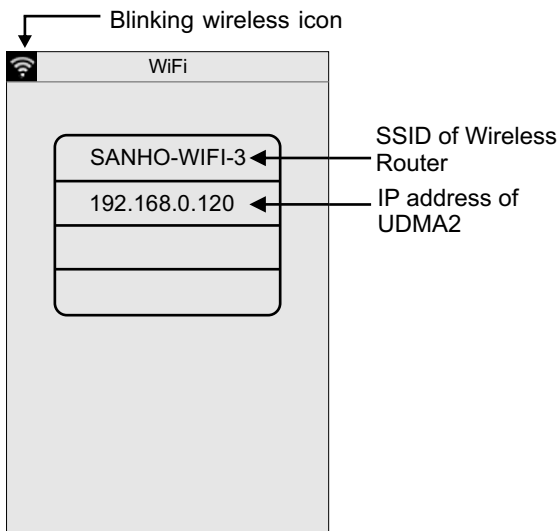
Tip

The password being successfully saved does not mean the password is correct. As UDMA2 can only verify the password after restart, so even if the current password is wrong, there will be no indication or warning!

WiFi Wireless Sharing Photos

5. Please restart the UDMA2 after the password of the wireless router was saved.

6. After the UDMA2 restart the 'Wi-Fi' function, it will try to use the last saved password to connect to the specified wireless router. If the connection is successful, the LCD screen will display the wireless router SSID and IP address of the UDMA2 assigned by the wireless router.



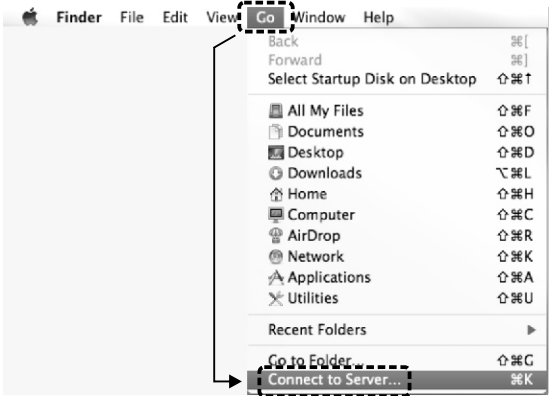
Tip

If the entered password of wireless router is wrong, or the wireless router is beyond the working scope, UDMA2 will return to 'Ad-hoc' mode.

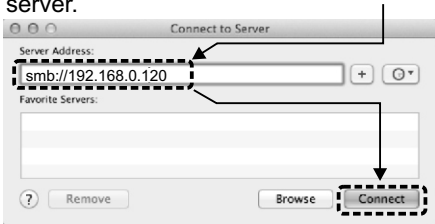
WiFi Wireless Sharing Photos

Accessing UDMA2 in Mac OS

1. Select 'Go'-'Connect to Server' from the menu of 'Finder' program in the MacOS;



2. Enter the IP address of the UDMA2 in the address bar of server.



3. Later , MacOS operating system will require user authentication, select the identity of the 'Guests' and click 'Connect' to complete the operation.



WiFi Wireless Sharing Photos

Accessing UDMA2 in Windows

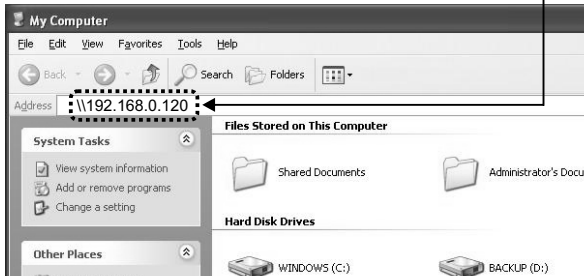
1. Open the 'My Computer' icon in the Windows;



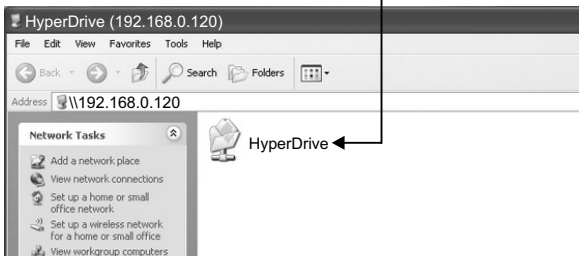
My Computer

2. Enter the IP address of the UDMA2 in the address bar in "My Computer" Window;

NOTE! Add two backslash before IP address!



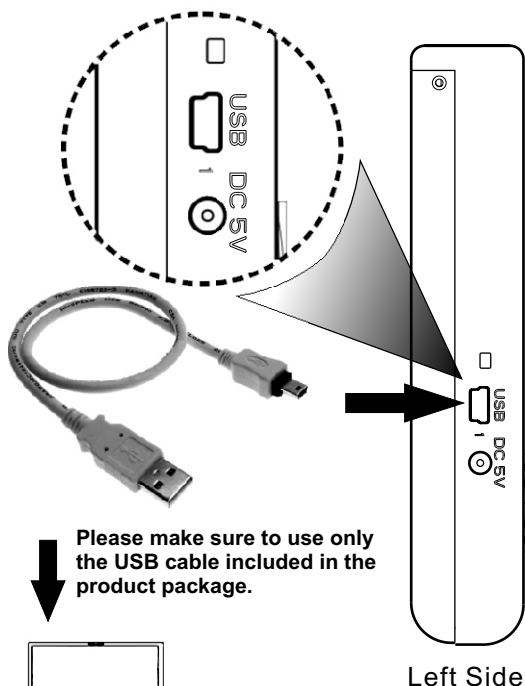
3. After enter the IP address, use the mouse to click on the 'Go' button or press the computer's Enter key, and the name of UDMA2 will be displayed in the window.



4. Click on the name of the 'HyperDrive', you can access the contents of UDMA2.

08 USB Connection to PC

1. In the **Power Off** state, use a USB cable to connect the UDMA2 to a personal computer's USB port ;



Tip

The UDMA2 can not connect a PC in the power on state or charging state.

09 Settings

Check the Hard Drive S.M.A.R.T. Info

1. Select 'Settings' in the desktop main menu, and then press the OK button;
2. Select 'HDD' - 'S.M.A.R.T. Info' and press the OK button;

S.M.A.R.T. Info	
PowerOnHour	651
RetractCount	41d
LUCycleCount	2760
Temperature	33
Gsense	11f8
RawErr	9d6
SeekErr	0
ReAllocCnt	0
HungupCnt	0
UDMAErr	f2
Ok	

Tip

The full name of S.M.A.R.T is “Self-Monitoring, Analysis and Reporting Technology”. It is mainly for detecting and recording the predictable mechanical failures of the hard drive, and it can also issue a warning before the occurrence of such failures to protect the hard drive data from loss.

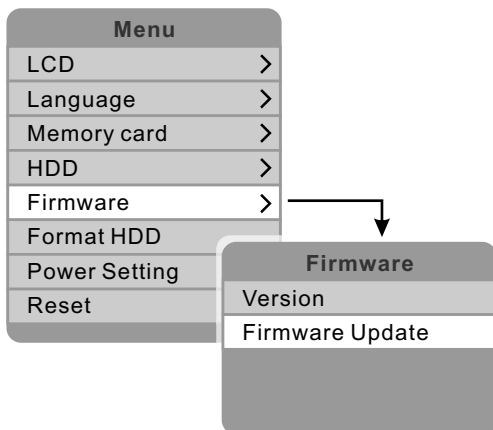
Settings

Upgrade the Firmware

Tip

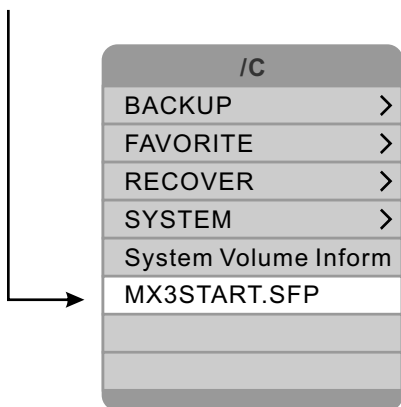
If it's fail to update firmware, your UDMA2 maybe malfunction.

1. Please download the latest software upgrading package from www.hyperdrive.com;
2. Connect to the computer via USB cable (see 'USB Connection to PC'), and then copy the downloaded SPF file into the built-in memory of UDMA2.
3. Select 'Settings' in the desktop main menu, and then press the OK button;
4. Select 'Firmware' > 'Firmware Update' and then press the OK;



Settings

5. Select the SPF file from the file list window;



6. Select 'Yes' in the warning dialog box and press the OK button to start upgrading;

7. After the upgrading is completed, press any key to power off the device. The new software will be applied after the next startup.

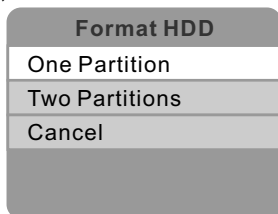
Tip

Upgrading the software when the power is not enough will result in malfunction; please plug in the external power supply to prevent upgrading failure.

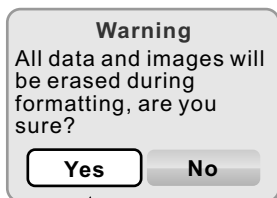
Settings

Format Hard Disk

1. Select 'Settings' in the desktop main menu, and then press the OK button;
2. Select 'Format HDD', and then press the OK button;
3. Select the number of partitions, and then press the OK button;



4. Select "Yes" on the first warning;
5. Select "Yes" on the second warning;



6. Wait until the formatting is completed;

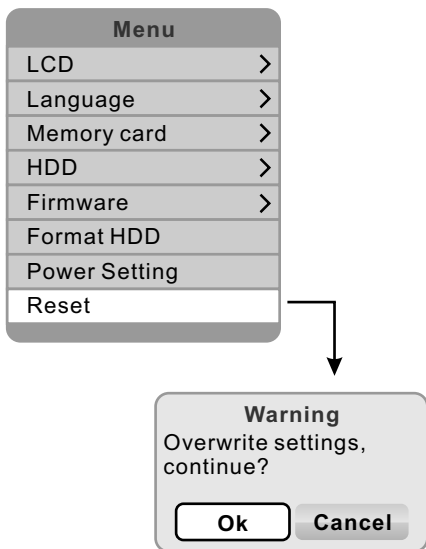
Tip

The formatting operation will delete all images and data; please make a backup before the operation.

Settings

Restore Factory Settings

1. Select 'Settings' in the desktop main menu and select 'Reset'; then press the OK button;
2. Select 'Ok' in the confirmation window, and then press the OK button.



Tip

'Restore Factory Settings' will reset all settings to the factory values, but it will not delete the files in the UDMA2 HDD.

Specifications

Memory Card Slot

CompactFlash Type I
SD/MMC/SDHC/SDXC

USB Port

USB2.0 Device 480MBps

Hard Drive Port

SATA 2.5-inch, 9.5mm thickness

Accessory Port

USB2.0 Host 480MBps

Charging Port

DC 5V/2A

LCD

3.5" TFT 320x480 Color LCD

Buttons

9 function buttons/1 power button
1 reset button

Build-in Battery

2600mAh rechargeable Li-on battery

Battery Life

Importing photos up to 120 minutes
Playing photos up to 180 minutes

Wireless Adapter

WiFi 802.11b/g/n standard
Support Ad-hoc and Infra modes

Dimensions

76mmx138mmx26mm



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